



1010 1020 1030 1040 1050 1060 1070 1080 1090 1100 1110 1120 1130 1140 1150 1160 1170 1180 1190 12

28269679.m **SAPAEVRITPPYSCGFYDGLLILLCLLILQGKPLIRLIVVSEWVTIHWIRFSPAPRLPEEVSA**
Fused **SAPAEVRITTPPGSCGFYDGLLILLCLLILQGKASLIRPMSSEMWTVLWIRFSPAPRLPEEVSA**

25051442.m

ULK3

31982530.r **APSLRVYVPGASPPSLEGLETFEAPELPDEETLMERHEDTIREINNMMLMFTECVLDITAVRGGNPECTSAVSLYQDQSISLSDWGRVECLVLMKAAQQLAASLHLAKAO**
ULK2 **APSLRYVYVPGASPPSLEGLETFEAPELPDEETLMERHEDTIREINNMMLMFTECVLDITAMRGGNPECTSAVSLYQDQSISLSDWGRVECLVLMKAAQQLAASLHLAKAO**
27672185.r **APSLRYVYVPGASPPSLEGLETFEAPELPDEETLMERHEDTIREINNMMLMFTECVLDITAVRGGNPECTSAVSLYQDQSISLSDWGRVECLVLMKAAQQLAASLHLAKAO**
6678503.m **APGHCCSLADFLAANLEGATFEEAPLPDEETLMERHEDTIREINNMMLMFTECVLDITAVRGGNPECTSAVSLYQDQSISLSDWGRVECLVLMKAAQQLAASLHLAKAO**
ULK1 **APGHGCFAADPIAANLEGATFEEAPLPDEETLMERHEDTIREINNMMLMFTECVLDITAVRGGNPECTSAVSLYQDQSISLSDWGRVECLVLMKAAQQLAASLHLAKAO**
113r_E

ULK4

BcDNA_GH04 **YGKNGVLHIAKAVRSYTQQLFLALKLKKTGILHADIKENILVNENNNLLKLICDFGSASAISDN**
BcDNA_GH07 **LQLEMEKLERERNLHIRELKILINEDSRFNHNPVLNDRYLLMLLKGKGFSEVKAFDLKEQRYVACKVHQLNKDWEPKKANYTKHALREYNIHKADHFRVVLYDVPEIDANSFC**

1210 1220 1230 1240 1250 1260 1270 1280 1290 1300 1310 1320 1330 1340 1350 1360 1370 1380 1390

1400

28269679.m **CHHLSLQASAPNLTRALTDASLSCRSLP**
Fused **CYHPLMVEQPHLMLTRALMDPTSLNQFVNIVGASERITIVFLSVALLSDQPLTS DLLSLLAHARVLSLSPSHLSFTQSELLAGSDESYRFLRSSLGHPPENS**
25051442.m

ULK3

31982530.m **DIVVRYIKAAVLLGKTHQDFIDVENVHKYKCSDEPFLSACCCSTATV**
ULK2 **DIVVRYIKAAVLLGKTHQDFADLLENHKYKCSDEPFLSACCCSTATV**
27672185.r **DIVQRYIKAAVLLGKTHQDFPADAESVHKYKCSDEPFLSACCCSTATV**
6678503.m **GCVERYIKAAVLLGKTHQDFADLLENHKCDEPFLSACCCSTATV**
ULK1 **GCVERYIKAAVLLGKTHQDFADLLENHKCDEPFLSACCCSTATV**
113r_E

ULK4

BcDNA_GH04 **DQHRKVQQLDLEENMPADDPAKRISLNQALVHPFPQSKM**
BcDNA_GH07 **ENYNPDHGMDHTSGAGTYWYLPPECFVVGKINPKRHSKVDVWSVGIVIFYQCLYKKPFGHNQSQATILEENTILKATEEVQFSNKPTVSNEAK**

1410 1420 1430 1440 1450 1460 1470 1480 1490

28269679.m **EGLGEELQCEVPQRILLEMACGDPQPNVKEAALIALRSLQQEPGIHQVQLVSLGASEKLSLLSLQNSLPHSSPRPASAKHCRKLIIHLRPAHSM**
Fused

25051442.m

ULK3

31982530.m

ULK2

27672185.r

6678503.m

ULK1

113r_E

ULK4

BcDNA_GH04

BcDNA_GH07